



APPLIED SCIENCES HSSC-I

108

Time allowed: 2:20 Hours

Total Marks Sections B and C: 40

NOTE: Answer any thirteen parts from Section 'B' and any two questions from Section 'C' on the separately provided answer book. Use supplementary answer sheet i.e. Sheet-B if required. Write your answers neatly and legibly.

SECTION – B (Marks 26)

Q. 2 Answer any THIRTEEN parts. The answer to each part should not exceed 2 to 4 lines. (13 x 2= 26)

- (i) What is Force?
- (ii) Differentiate between mass and weight.
- (iii) What is Density? Also write its unit?
- (iv) What is Pressure?
- (v) Convert $98.6^{\circ} F$ into Celsius scale?
- (vi) Define Transparent, translucent and opaque objects.
- (vii) Define frequency and wavelength and write their units.
- (viii) What is static electricity?
- (ix) Write the relation between potential difference, current and resistance.
- (x) Differentiate element, mixture and compound.
- (xi) Enlist 6 chemicals and their chemical formulae.
- (xii) Write a short note on 'need of water for human body'.
- (xiii) Write physical and chemical properties of Acids.
- (xiv) Write a short note on *pH* scale.
- (xv) Enlist importance of ions in the human body.
- (xvi) What is radioactivity?
- (xvii) Write physiologically active proteins.

SECTION – C (Marks 14)

Note: Attempt any TWO questions. All questions carry equal marks.

(2 x 7 = 14)

- Q. 3** Write a detailed note on atomic structure.
- Q. 4** What is friction? Write advantages and disadvantages of friction.
- Q. 5** Explain the characteristics of sound in detail.